

ABSTRACT

The invention implements inter-terminal transmission with guaranteed capacity based on the single-path configuration function of networks composed of switching hubs
5 with an MAC address learning function and centralized management of transmission capacity, without control over hubs. The capacity to be used by transmission links on a network is stored in advance and transmission capacity along the path to be used is allocated based on requests from terminals, with the allocation removed using a Terminate Request. At such time, by using transmission links and switching hubs with an MAC
10 address learning function, transmission is limited to single-path transmission.